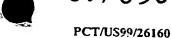
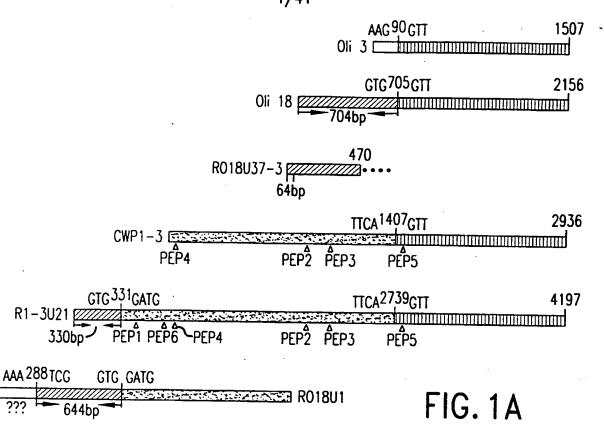
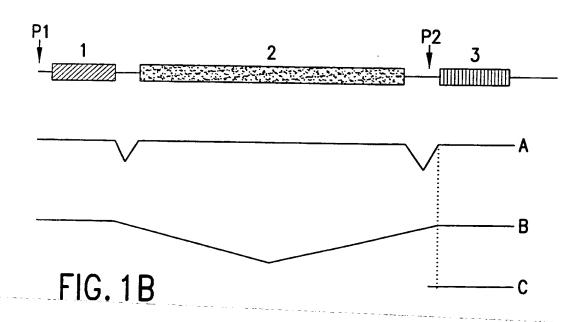
COCUCATA COCACA







270

N T A

_ 9

S

S

10 170 137 204 237 37 2 TIGCCCAACC CCCACAACCG CCCCCACTC TGAGGAGAAG CGCCCTGCG GCGCTGTAG CTGCAGCATC GTCGGCGACC CGCCAGCC (ATG) GAAGACATA ATTG CTCGTCTGGG CGCCGCGGG GGCTGCAGCC TGGGACAGGG CGGGTGGCAC ATCTCGATCG GACCAGICGI CECTGGICIC CICCICCACE GACAGCCCCC CCCCCCTIC CCCCCCTIC AAGIACCAGI ICGIGACGGA GCCCGAGGAC GAGGAGGACG AGAGGAACTG GAGGTGCTGG AGAGGAAGCC CCCAGCCGGG CTGTCCGCAG CTGCCGTGCC CGGCCGCTG CCGCCGGGC CCCTGCCGC TCCTGAGAGG AGAGGACGAC GAGCCICCCC CTTCCACCCC GCCCCCCCC AAGGCCAGGG GCTCCGGCTC GICCIGCTIG AAACIGCTGC CICICTICCI ICICIAICIC CICICICAAC IGITICIIII AAAGAACAIG လ လ TGGAGCAGCC AGGTAACACT 王 山 z م A م ပ ¥ CGAAGGCAGG AGAAGCAGIC ICAIIGIICC GGGAGCCGIC GCCICIGCAG GIICTICGGC ICGGCICGGC ACGACICGGC CIGCCIGGCC (ATGAAGCTIC TAAAGAGTIG CCAGAGAGGG S S 0 ~ u > _ بح ≆ GGGAACGCAG CCCCCCCCCCC CCCGCGCCAT CCCTGCCGCC CGCTGCCGCA GTCCTGCCCT CCAAGCTCCC AGIGGAIGAG ACCCTITITG CTCTICCTGC TGCATCTGAG CCTGTGATAC CCTCCTCTGC AGAAAAATT ATGGATTTGA S ⋖ ⋖ 0 P A \mathbf{x} > ≥ Ъ S ۵. م ¥ مـ >-<u>~</u> S A F ပ ¥ > S ؎ <u>~</u> 900000000 GCGGGAGCCC GCGGGCCCCC CCTCAGAAGG AACAATTGAA GAAACTTTAA ⋖ A P S ؎ ¥ ⋖ × S <u>а</u> × S سا ⋖ م م ۵ 100010000 _ ^ م م م > S S œ S م ٩ لنا ACCAGGACCT CAGCAGCGAC CCACCCCCT بيا ۵. م م S S S ¥ S S A A 0 م ⋖ GCAGGACGAG GAGGAGGACG A A CCAGGCCCCC GCCTCCGCCC CCAGCCGGCG TCCTGCACTT S GTTTCGTCTC GTCAAGAGGA TTTCCCATCT **GCACTGTCAT** ပ ۵. S ط ⋖ ٦ ٧ S S م S 000000000 ؎ GATACCTIGG TAACTTATCA م 2 ۵ _ Z ⋖ سا م ⋖ S **=** ပ ပ 22222222 ۵. S а а ≃.

快声。

437

S

0

 $\boldsymbol{\times}$

؎

S

م

L

S

0

ىنا

z

2

ပ

u

ഗ

0

×

ပ

S

×

0

w

TGGAGCAAAA AAGTCTTGGG AAGGATAGTG AAGGCAGAAA

ACCTGTGAAG GACAGCTCCA

GTACCCCAGA

TCTTTCCCCA

304 337 370 404 ICCCCAAAAG GAGAGICAGC CAIATIAGIA **GTGGGTAAAG** GAAAAGACAA IGGACATTIT TAATGAAATG CAGATGICAG TAGTAGCACC TGTGAGGGAA GAGTATGCAG ACTITAAGCC ပ $\mathbf{\times}$ **AGAATCACCT** GIGGAAAGTA AAGTGGACAG S S سا > ပ **×** O ACAGTCCACA w S ط <u>~</u> ۵ ш S > S > 工 مـ AGTITGIAGI GCAGCCCTIC TAGAGCTAAT Z **V** ᆇ V \forall > ــا W W ¥ > S TGGGATCATC S 16CTGCCTGC S S **V** ပ ≥ ပ > _ 0 ≆ > CAGAATITIC AGAATTAGAA TATICAGAAA **AACACCATIT** ACTACCCA1C ≥ 0 0 u S \simeq <u>...</u> z S **×** w AATTGTGAGG AGTAAAGACA TIATGAGGGA ပ 0 نسا ϫ 0 u **>** S ≥ S <u>~</u> **IGAAAGATAC** 0 **~** $\mathbf{\times}$. . w ~ > ACACATTIAC ACCAACAACT **GCATGCGAAG** u u S 0 u <u>~</u> **×**

470 AGAAGATCAT ACTICAGAAA ATAAAACAGA TTCCTTGTAG CAGTACAGGA TTCTGAGGCA S 工 _ <u>۔۔</u> 1000111011 **GTCAAATCCT** ۵. SCCCCAAAAC (**GCAAACACTT** r z ¥ AAGCACCACA AATTATAACA GAGAAGACTA Q I I T E K T S CAGCAACCGA ⋖ S TCAAAAAAA ATAGAAGAAA GGAAGGCCCA TCCTTTACCT S TACCTGTGCT ပ

504 537 CTIAICAAAG GIGACIGAGG CAGCAGIGIC AAACAIGCCI GAAGGICIGA CGCCAGAIII AGIICAGGAA GCAIGIGAAA 0 0 4 0 ے ٩ z ပ S سا ٩ ≥ z S > ⋖ V > $\boldsymbol{\prec}$ ¥ S **×** <u>~</u> CAACAGATAC 0 \succeq

570 AGCTATACAA GAATCACTTT ACCCCACAGC ے ښ _ V **AAACATCAGA** S O AACAAAAGTG GACTTGGTCC E T K V D L V GGTACAAAGA TTGCTTATGA ¥ ပ TCAACCCACA ~ **CTGAACTGAA**

604 S ۵. S Z TGTTATGGAA GCACCATTAA ۵. × ≥ AGCAACTCCG TCACCAGTTT TGCCTGATAT 0 ٩ S ⋖ ب

FIG.2A2

ルイトの計算的報酬

670 637 CIAAAAGCII IGGGAACAAA GGAAGGAAIA AAAGACCCIG AAAGIIIIAA IGCAGCIGII CAGGAAACAG O GGTGCTICTG IAGTGCAGCC CAGTGTATCC CCACTGGAAG CACCTCCTCC AGTTAGTTAT GACAGIATAA AGCTTGAGCC > V ۷ N \succeq _ _ S ىيا S ш × م ပ ط V ပ ۵. ⋖

704 × TCCACTGAGC CAAGTCCAGA TITCTCTAAT TATTCAGAAA TAGCAAAATT CGAGAAGTCG Z S 0 م S Ф S **× AACAAAGCTC** CCCTCTCATT TAATTAAAGA ¥ 0 ပ

737 > ш AGTIGACTTA TTTAGTGATG ATTCCATTCC S 0 S D 4 0 > AGTGGAGGAT TCCTCACCTG AATCTGAACC S ىيا S s**∢** Е О > ⋖ I

770 GICTGAGACA GIAGCCCAGC ACAAAGAGGA GAGACTIAGI GCCICACCIC AGGAGCIAGG 0 S ⋖ S <u>~</u> π × 0 V s > GATGCTCATG AAGGAGAGTC TCACTGAAGT V M L W K E S L T E

804 TIAGAGICII TICAGCCCAA ITIACATAGI ACAAAAGATG CTGCATCTAA TGACATTCCA ACATTGACCA AAAAGGAGAA AATTTCTTTG <u> </u> О N A A S 0 **∠** S 工 F 0

837 TCAAATGATG ACTTACTITC ITCTAAGGAA GACAAAATAA AAGAAAGTGA AACATTTTCA GATTCATCTC S S ىيا \mathbf{x} ~ 0 ~ S S 0 Z S **TGCAATTTAT** T A AGITIAATAC Z

870 S TAAAGATGAT TCTCCTAAAT TAGCCAAGGA GTACACTGAT CTAGAAGTAT A K D D S P K L A K E Y T D L E V TIGTCAGTGC F V S **⊢** d CGATIGAGAT AATAGATGAA TITCCCACGT 3 0 -

CCTITCTITC AAGAATATA ATCCTAAAGA TGAAGTACAT z ¥ S T AATATCCAAA GCGGGCAGA TTCATTGCCT TGCTTAGAAT TGCCCTGTGA ပ <u>م</u> 3 7 0 S O ပ S

937 CTTTGGAACC TCAGACAGAA ATGGGCAGCA ALE 2 S م ACTIGNATION ACCONTICON K A S AATTCTCCGA AAATAGGTCC 2 z

FIG.2/

970	1004
AAAGAAG CAGAGAAAAA ACTICCTTCT GACACAGAG AAGAGGACAG ATCCCTGTCA GCTGTATTGT CAGCAGAGCT	CCTCTA CTGGAGAGAC ATTAAGAAGA CTGGAGTGGT GTTTGGTGCC AGCTTATTCC TGCTGCTGT TCTGACAGTG
K'E A E K K L'P S D T E K E D R S L S A V L S A E	- L Y W R D I K K T G V V F G A S L F L L L S L T V 1004
GCTGTATTGT A V L	TGCTGCTGTC
ATCCCTGTCA	ACCITATICC
R S L S	S L F
AAGAGGACAG	GTTTGGTGCC
K E D	V F G A
GACACAGAGA	CTGGAGTGGT T G V
ACTICCTICI	ATTAAGAAGA
K L P S	I K K
CAGAGAAAA	CTGGAGAGAC
A E K	Y W R D
ACC T	ACCTCCTCTA D L L
IAGTIAAATC CAAATCACTT ACGAAAG, I V K S K S L T K	GAGTAAAACT TCAGTTGTTG ACCTCCTC
TAGTTAAATC	GAGTAAAACT TC
I V K	L S K T

23 of 15, 17 5. 4. 4. 4. 4.

1104	1G11GG1GCC Y V G A	IGITIACITA V F I	TTGATGTGGG	STTTGCAGTG F A V	CAGCACAATA AAAGAACTGA GGCGGCTITT CTTAGTTGAT GATTTAGTTG ATTCCCTGAA GTTTGCAGTG TTGATGTGGG 1GTTTACTTA TGTTGGTGCC N S [T] I K E L R R L F L V D D L V D [S] L K F A V L M W V F T Y V G A 1104	GATTTAGTTG D L V	CTTAGTTGAT F L V D	GGGGCTTTT R R L	AAAGAACTGA K E L	CAGCACAATA N S [] I
1070	GTCATGTGAA G H V	TCTGCTCTTG S A L	ATACAGTAAT K.Y.S.N	TGCTTCAGAA L V Q	CAGATGAAGG CCACCCATTC AGGGCATATT TAGAATCTGA AGTTGCTATA TCAGAGGAAT TGGTTCAGAA ATACAGTAAT TCTGCTCTTG GTCATGTGAA S D E G H P F R A Y L E S E V A 1 S E E L V Q K Y S N S A L G H V	AGTTGCTATA E V A I	TAGAATCTGA L E S	AGGGCATATT R A Y	DAGATGAAGG CCACCCATTC AGGGCA S D E G H P F R A	CAGATGAAGG S D E
1037	ATCCAGAAAT I Q K	CATCCAGGCT V I Q A	ATAAGGGCGT Y K G	TTTAGGATAT F R I	FICAGCATIG TCAGTGTAAC GGCCTACATT GCCTTGGCC TGCTCTCGGT GATCAGC TTTAGGATAT ATAAGGCCGT GATCCAGGCT ATCCAGAAAT FISHIVS VIN Y SV TAY I A L L L S V T I S F R I Y K G V I Q A I Q K 1037	TCCTCTCGCT	GCCTTGGCCC A L A	GCCCTACATT T A Y I	ICAGIGIAAC V S V	F S I

	1137
CATTATCTAG	H Y L
GCAGATAGAT	0 1 0 .
ATGAAC GCCATCAGGT GCAG	YERHO
ITITA GCICIGATCI CACTCTICAG TATICCIGIT ATTIATGAAC GCCATCAGGT GCAGATAGAT CATTATCTAG	SIPVI
. JGA	
TIGITCAATG GICTGACACT AG	רו א טרו

1163 TGAAGGGCAA AGCAGATTGA AAAAGGCCCA AACAGAAGT 4 ~ œ GACTIGCAAA CAAGAGGIGIT AAGGAIGCCA IGGCCAAAAI CCAAGCAAAA AICCCIGGAI GGGGACACIC ACTICATIAC GGGGTGGGA GGGTCAGGGG ⋖ V **~** S **~** z CATCITIAAA ပ

CITIAITITI ACCAGICCAC GTTTAGATGA GAGCATACTA CTAATCTATA CACTICTAAA GAAGCCAAAT GCACATAAAC CATTGTTATG CAAGAAATCA TGTCATTICA AAGACTIACI GTAGTCACAC GTAGTCCCAA AAATATAGAC ATCAATAAG CCTTTCACCT TGTATGCAGA **GCATCTCATT** CAAATGAAAT AAATATAGAA ACTIATCAAA CAATATAAGT GTTATGCAGT GTGAACTGTA AAAGCAAAGT TCACCCTTC GTGGCCGTGC GTAGTCTAGC **ICCTCTCTAT GTTATATTGC** IGACTCATTG ACTCCAACAA **AAATGTTTGC** AGATTTTTCT GGTCAGTGTA AAACTGATGC TATTGTAAGC AAAATATAGA CTGCTGCAGG **IGAATTTACT** GCTTGACCTC TCATGCTTCC **GCAATGCATT** TCATCTTAAG ACCTCTATTC **TGCATTGTAT** IGTTTTCAAC TIGIGGITIA ACCCCIACIC AATTAICIGI GCCCCACAGT **GCACTGAATT** CCTGTGTTTA **GGGAAAGCTG** ACCTACCACC GAATTCTAT TACTGTGTTT GCTCTTCT CCTTGCAGCT **AAAGGACTCG** ITTCACAGTG **ACATCTTTAA GTCTTGACTT** TAGGAGTGCT CIGICITIAI CACAGACTCT AATGTATTIC CCTGGTGAAT GTGGAAAACT **AAAATTACCT GCAAAACCCT** CACAAAGCTT TAATTTTGT AAAAAAAA ICTTICACCA CTAAAGCAGA STATGTATAG CAATGAGGCG CTGGGGGCAG AGGAAGAGA AAAATGAAG TATAGTGTTT AAAAAAA

(bovine) (rat)	EYLGDLPAVLPTE EYLGDLPAVLPTE gYLGnLsAVsssE	peptide 4: (bovine) (rat)	KXFEXVWEV KPFERVWEV KPFEQaWEV
peptide 2:	EIAEIQDG ESL	peptide 5:	VVDLLYWRDIK
(bovine)	EIAdIQDGagSL	(bovine)	VVDLLYWRDIK
(rat)	EIAnIQsGadSL	(rat)	VVDLLYWRDIK
peptide 3:	KXYLESIQPSLGITK	peptide 6:	KAVAAEASMREEYADF
(bovine)	KPYLESfQPSLGITK	(bovine)	KgVAAEASMgEEYADF
(rat)	KPYLESfQPnLhsTK	(rat)	mqmsvvApvREEYADF

FIG.2B

7) C) (1)
n N

		ပ်
		FIG.
GLSATISI VLIAAIGI LLSVTISI ALSATISI ALSATISI ALGAAAGI		SMF SWF SWF SWF SWF SWF SWF SWF SWF SWF SW
VSVVAYLA VSVIAYIA VSVIAYIA VSVIAYIA VSVVAYLA VSVVAYLA VSVVAYLA	CONTRACTOR SOLUTION OF THE PROPERTY OF THE PRO	
30 LLFSLTOFSV LLFSLTOFSV LLFSLTOFSV LLFSLTOFSV LLFSLTOFSV LLFSLTOFSV LLFSLTOFSV	LENEWALSOD YPHPK1E1PR LESEVAISEE LESEVAISEE LELEITLSOE LAODLTLPOE 130 LLTYVGALFN VFTYVGALFN VFTYVGALFN	LLTYVGALFN LLTYVGALFN LLTYJGARFS J80 VAKIQAKIPG VAKIQAKIPG VAKIQAKIPG VAKIQAKIPG VAKIQAKIPG
TGIVEGSUL TGIVEGSUL TGVVEGASU TGVVEGASU TGIVEGSFU SAIVLSLAU	TDEGHPFKAY DENKDQ1LRF SDEGHPFRAY TDEGHPFRAY TDEGHPFRAY TDEGHPFSE1 120 DSLKFAVLMW EDSLKFAVLMW DSLKFAVLMW	DSLKFAVLMW DSLKFAVLMW ESIIKFGLVLW 170 GLVRTHINTV GLANKNVKDA GLVRTHINAV GLVRTHINAV ATISGHLKNV
10 NLLYWRD I KO NLLIWRNSRK DLLYWRD I KK DLLYWRD I KK DLLYWRD I KO DLLYWRD I KO		RRLFLVDDLV KKLNFVESPL 160 KYQAQIDQYL RHQYQIDHYL KHQAQIDHYL KHQAQVDQYL SNQEAIDPHL
	101 101 101	101 151 151
CHS-REX U51048 NOGOBOV NOGORAT NSP S-REX WO6A7A	CHS-REX U51048 NOGOBOV NOGORAT NSP S-REX WO6A7A CHS-REX U51048 NOGOBOV	NSP S-REX W06A7A CHS-REX U51048 N0GOBOV NOGORAT NSP S-REX W06A7A
	CIID COMPANION CITTON CONTRACTOR ACC	

1111.60

```
NOGOBOV 97.3%
NOGORAT 98.3% 62.5%
S-REX 91.1% 16.6%
CHS-REX W06A7A U51048
```

FIG. 3B

mound de trans of



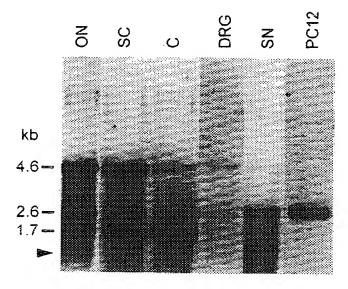


FIG.4A

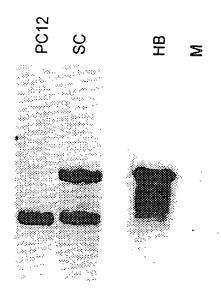
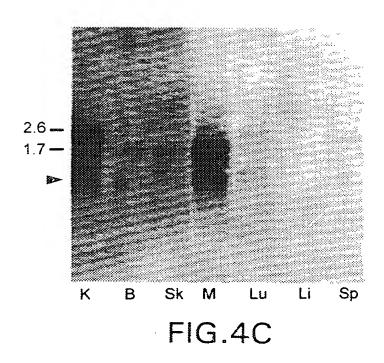


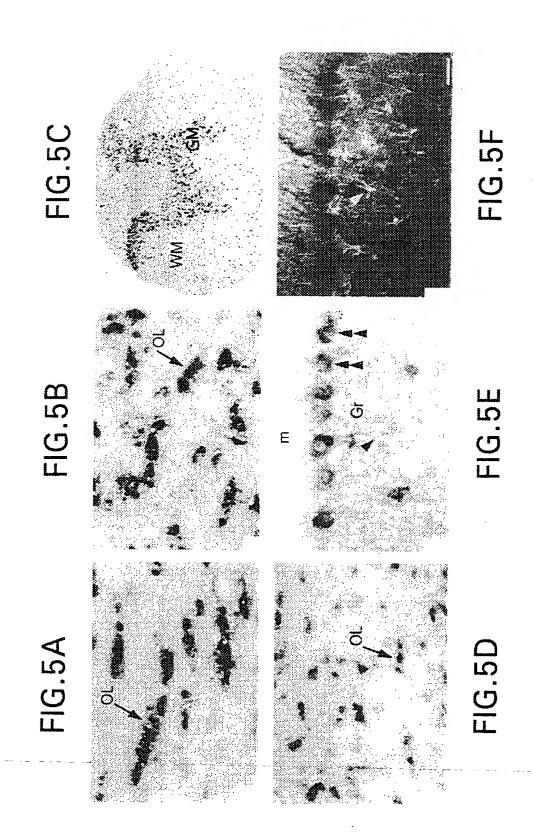
FIG.4B

SET SEE SEEDEL

PCT/US99/26160



的国际阿加州的



SUBSTITUTE SHEET (RULE 26)



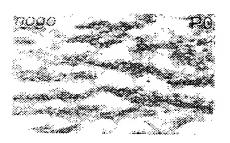


FIG.6A

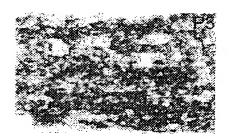


FIG.6B



FIG.6C



FIG.6D

THE RESERVE OF THE CHARLES AND THE

13/41

nogo P22 pip P0 pip P3

FIG.6E FIG.6F

FIG.6G

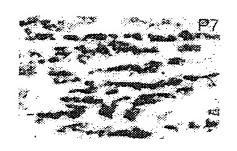
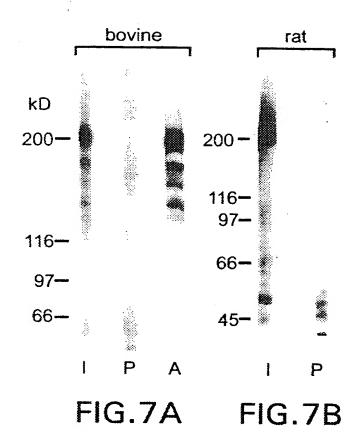


FIG.6H

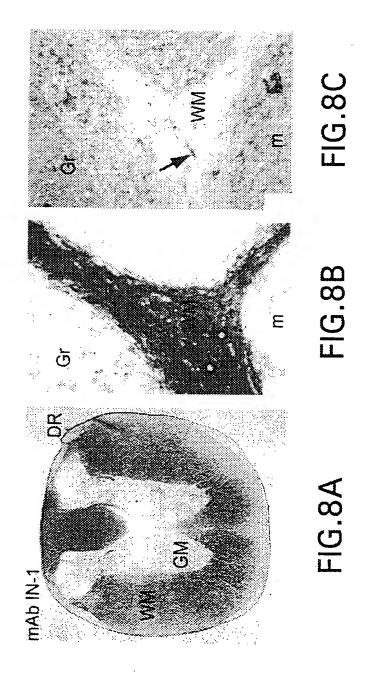


FIG.61

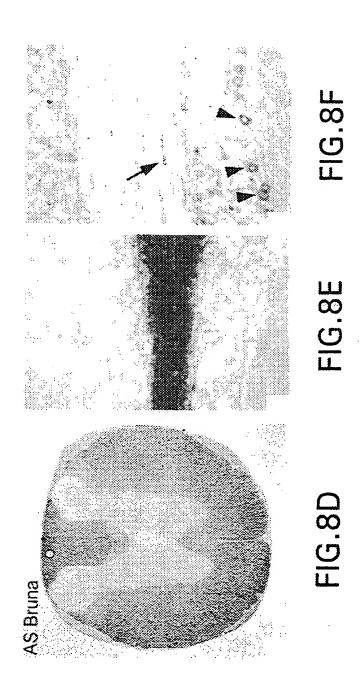


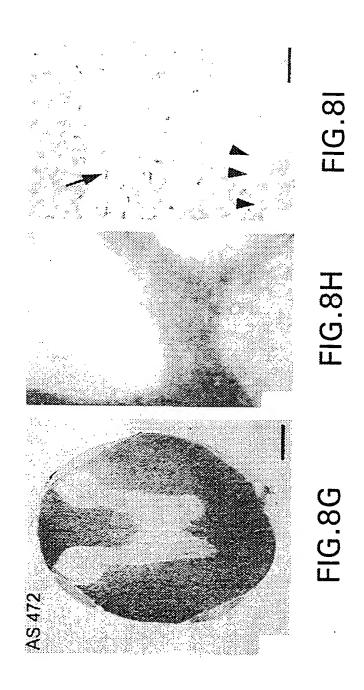
WO 00/31235

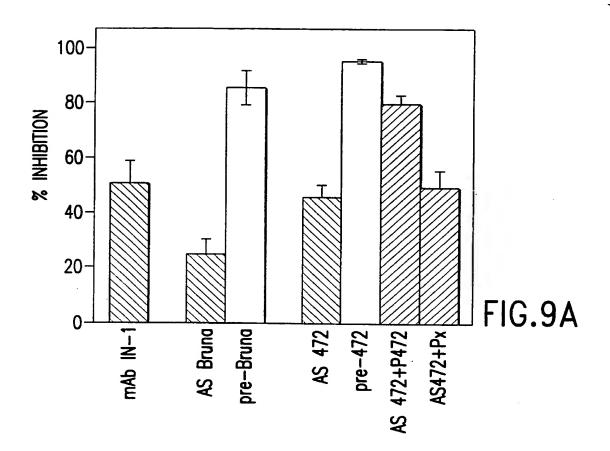
PCT/US99/26160

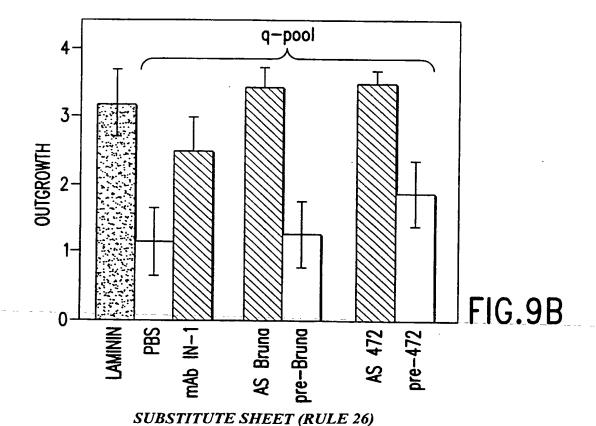


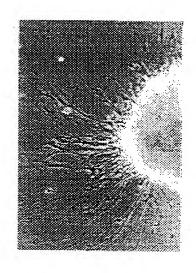
PCT/US99/26160



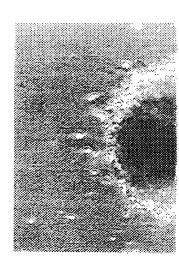








10.9D



-IG.9C

a mandal that is to

PCT/US99/26160

20/41

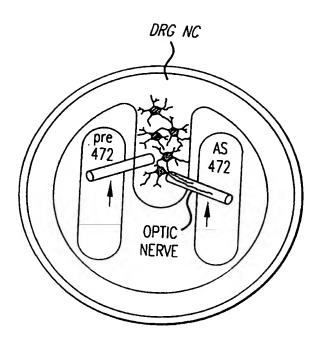


FIG. 10A

CULTURE	pre-472	AS 472
1		++
2 3	. -	+++
	+	+++
4 5	+	_
6	+	+++ +++
7	++	++
8 9	+	++
10	+	++
		+++

AXONS/NERVE:-=0;+=1-20;++=20-50;+++=50->300

FIG.10B

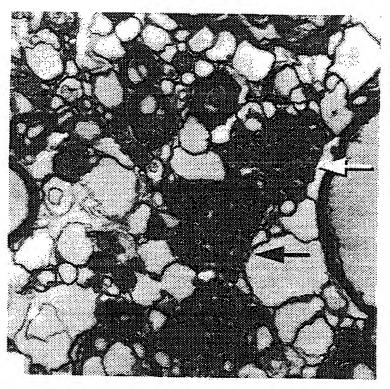
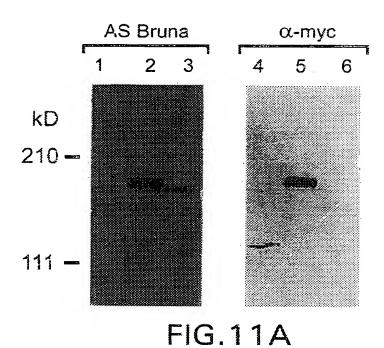


FIG.10C



FIG. 10D SUBSTITUTE SHEET (RULE 26)

4 17 Burn 1 18



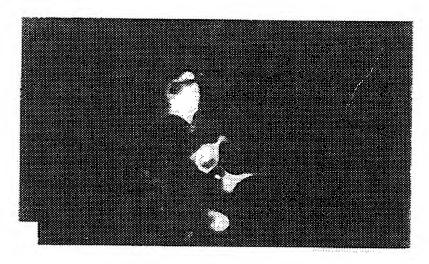


FIG.11B

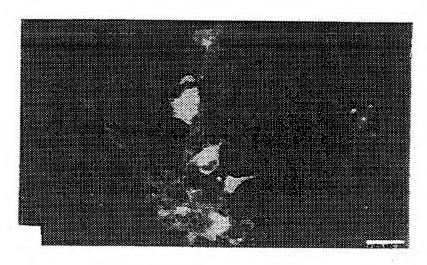
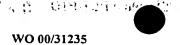


FIG.11C

24	14	4
4	/4	1

		2-	T/ T I		
10) 20	30	40	50	60
CTATCTCCT	CTCTCAGCCGC	CIGCTTTTAAA	GAACGTGAAT	ACCTTGGTGA	TTTACCAGCA
70	-		100		
GTACTGCCCA	A CTGAAGGAAC	ACTTCCAGCA	ACTTCAAATG	AAGCTTCTAA	AGCATTCTCA
130			160		
GAGAAGGCAA	AAAATCCATT	TGTAGAGAGA	AATTTAACAG	AATTTTCAGA	ATTGGAATAT
190				230	
TCAGAAATGG	AATCATCATT	CAGTGGCTCT			
250				290	
AATCCTAGGG	ACGAAATAGT	TGTGAGGAGT	AGAGATAAAG	AAGAGGACTT	AGTTAGTCTT
310				350	
AACATCCTTC		GGAGTTATCT			
370		390			
		AAAAACAAAG			
430		450			
GAAGCTTCTA	TGGGGGAGGA	ATATGCAGAC	TTCAAACCAT	TTGAGCGAGT	ATGGGAAGTG
490		510		530	
	ACAAGCAAGA	TAGTGATGTT	TTGATTGCTG	GAGGTAATAT	AGAGAGCAAA
550		570		590	
		GAAACACTTT		TTGAACAAAC	AAATCGTGAA
610	620	630	640	650	660
	AAAGCAGTAA	TGATGACACT	TCATTTCCCA	GTACACCAGA	AGCTGTAAGA
670		690			720
	GAGCGTACAT	CACGTGTGCT	CCCTTTAACC	CAACAACTGA	GAATGTTTCA
730	740	750	760	770	780
		GGAAGATCAT		ATAAGACAGA	TGAAAAAAG
790				830	840
ATAGAAAAA	AAAGGCACAA	ATTGTAACAG	AGAAGAATGC	AAGTGTCAAG	ACATCAAACC
850	860	870	880	890	900
CHICCHAI	GGCAGCACAG	GAGTCTAAGA	CAGATTACGT	TACAACAGAT	CATGTGTCAA
		930			
		GCAAACATGC			
		990			
		AATGAAGCTA			
1030	1040	1050	.1060	1070	1080
TGGACCTGGT	ICAAACTICA	GAAGCTGTGC	AGGAGTCACT	TTACCCTGTA	ACACAGCTTT
		1110			
ULLLA IL III	IGAAGAATCI	GAAGCTACTC	CGTCACCGGT	TTGCCTGAC	ATTGTCATGG
I-I-5U-	1.160	1170	1.180.	1190	1200
AAULALLAII		GTTCCTAGTG			
1210	1220	1230	1240	1250	1260

FIG 12A



					CCTGAAAATC
1270		1290			
					ATGAATGAAG
1330				1370	
	GCCTGAAGGT	ATTAGTGTAG	CTGTTCAGGA	AACAGAAGCT	CCTTATATAT
1390	1400	1410	1420	1430	1440
	TGATTTAATT	AAAGAAACAA	AGATETETAC	TGAACCGACT	CCAGATTICT
1450	1460	1470	1480	1490	1500
CIAGITATIC	AGAAATAGCA	GAAGTTGCAC	AGCCAGTGCC	CGAGCATTCT	GAGCTAGTTG
1510		1530	1540	1550	1560
	CCCCGATTCT	GAACCAGTTG	ACTTATTTAG	TGATGATTCA	ATACCCGAAG
1570	1580	1590	1600	1610	1620
TTCCACAAAA		GCTGTAATAC			GAAATTTCAT
1630		1650			1680
CTGAGTCAAT	GACAGGACAT	GACAATAAGG	GAAAACTCAG	TGCTTCACCA	TCACCTGAGG
1690	1700	1710	1720	1730	1740
		TCTTTTCAGC			GATACCTTAG
1750	1760	1770			1800
CACCIGATGA		TTGACCCAAA			ATGGAGGAGC
1810	1820	1830	1840	1850	1860
ICAATACTGC		AGTGATGGCT			
1870	1880	1890	1900	1910	1920
AAAGTGAAAC	AIIIICAGAT	TCATCTCCGA	TTGAGATTAT	AGATGAGTTC	CCGACCTTTG
1930	1940	1950	1960	1970	1980
TCAGTTCTAA	AGCAGATICT	TCTCCTACAT	TAGCCAGGGA	ATACACTGAC	CTAGAAGTAG
1990		2010			2040
CCCACAAAAG	IGAAATIGCT	GACATCCAGG	ATGGAGCTGG	GTCATTGGCT	TGTGCAGGAT
2050	2060	2070	2080	2090	2100
IGCCCCATGA	CCTTICTTIC	AAGAGTATAC			GTCCCAGATG
2110	2120		2140		2160
AGTICICCAA		GATGTTTCAA			GATGTTTCTG
2170	2180	2190	2200	2210	2220
CITIGGAIGC		ATAGGCAGCA			GTGAAAGAAG
2230	2240	2250			2280
CCCACAGAAA		GATACAGAAA .			GCTATATTTT
2290	2300	2310	2320	2330	2340
CAGCAGAGCT					
2350	2360	2370	2380	2390	2400
CTGGAGTGGT (
2410	2420	2430	2440	2450	2460

FIG. 12B



IGAGIGIAA(C GGCCTACATT	GCCTTGGCCC	TGCTCTCTGT	GACTATCAGO	TTTAGGATAT
24/(2480	2490	2500	2510	2520
ATAAGGGTGT	GATCCAGGCT	AICCAGAAAI	CIGATGAAGG	CCACCCATTC	AGGGCATATT
2530	2540	2550	2560	2570	2580
IGGAATCIGA	AGIIGCIAIA	1 CIGAGGAGI	IGGITCAGAA	GTACAGCAAT	TCTGCTCTTG
2590	2600	2610	2620	2630	2640
GICAIGITAA	CTGCACAATA	AAAGAACICA	GACGCCTCTT	CTTAGTTGAT	
JC02	2660	26/0	2680	2690	2700
ALICICIGAA	GTTTGCAGTG	I I GAIGIGGG	TATTIACCIA	IGHIGGIGCC	TIGTICAATG
2710	/ 2/2U	2/30	2740	2750	2760
GICIGACACI	ACTAATTTTG	GCICIGATIT	CACICITCAG	IGITCCIGIT	
2770	2780	2/90	2800	2810	2820
2020	GCAAATAGAT	CALIAICIGG	GACTIGCAAA	TAAGAATGTT	AAAGATGCTA
ZOJU TOCOTAAAAT	2840	2850	2860	2870	2880
2900	CCAAGCAAAA	AICCUIGGAI	IGAAGCGTAA	AGCTGAATGA	GAAAGCCTGA
0507 04 4 T 04 04 4	2900	2910	2920	2930	2940
2050	AATAGAGGAG	IIIAILIIIA	AAGGGGATAT	ICATTIGATT	CCATTGGGGA
CCCTC4CCC4	2960	2970	2980	2990	3000
3010	AGAACAAAGC	CHIGACATIG	CAGTGCAGTT	ICACAGAICT	TIATTITIAG
CAACCCACTC	3020	UCUC	3040	3050	3060
7070	TCTGAGGAAA	AATGACCIGI	CHIGACIGCC	CIGIGITICAL	CAICITAAGT
ATTOTACOT	3080	UEUC	3100	3110	3120
7170	GCTATGTATG	GATTIAAATC	GIAAICAIAI	HGHIHICC	IGTATGAGGC
ACTCCTCAAT	3140	UCIC	3160	31/0	3180
3100	AAACAAAGAT	CIGAGAAAACC	IGIAIAI IAC	ACTITICICGC	AGGTAGTCTT
CCTCTATTTC	3200	JZ IU	3220	3230	3240
3250	GGGAATTGCA	7270	AUC I GACAGA	AATAACCCTT	TICACAGIII
GTGCACTGTG	3260	OTACCTICAT	JZBU	3290	3300
3310	TACGGTCTGT 3320	CIAGGIIGAI	GCAGATITIC	IGAAA IGAAA	
AGATCATGCC	ACCAAGGCAG	CACTCAAAAA	UPCC	UCCC	.3360
3370	7780	7700	3400	7410	TCTAGGTGTA
	TACTGTTGTA	TTAATT	UUPC AATAAATATA	J4 IU	3420
3430	3440	3450	3460		
	TTCACGAAGC		004C	3470	3480
3490	3500	3510			
	GGGTTTTATG		3520	3530	3540
3550	3560	3570			
	CTACCATCTG			3590	3600
3610	3620	3630	3640		
	CACTGCACAG	ACTTACTCTA	UPUC ATTTAATTT	3650	3660
3670	3680	3690	3700		
		2030	3700	3710	3720

FIG. 12C

27/41

ATATAAATGA	ATGTAAGAAA	AAACATTGTT	TGCAAATATC	CAAAAATGTT	CTAATGCTTC
3780	3770	3760	3750	3740	3730
CATTGTGAAC					
		3820			3790
00.0				AAGTATCAAT	TGTAAAAGCA

FIG. 12D

The Hope of the contract

WO 00/31235 PCT/US99/26160 28/41 MEDLDQSPLVSSS-DSPPRPQPAFKYQFVREPEDEE-EEEEE-EEEDEDE 50 MEDIDOSSLVSSSTDSPPRPPPAFKYQFVTEPEDEEDEEEEDEED DE 50 DLEELEVLERKPAAGLSAAPVPTAPAAGAPLMDFGNDFVPPAPRGPLPAA 51 100 DLEELEVLERKPAAGLSAAAVPPA - AA - APLLDFSSDSVPPAPRGPLPAA 51 100 PPVAPERQPSWDPSPVSSTVPAPSPLS - AAAVSPSKLPEDDEPPARPPPP 101 150 PPAAPEROPSWERSPAA - - - PAPS - LPPAAAVLPSKLPEDDEPPARPPPP 101 150 PPASVSPQAEPVWTPPAPAPAAPPSTPAAPKRRGS-SG----AV----151 200 1 11 | 11111111111 PPAGASPLAEP-----A-AP--P-STPAAPKRRGSGSVDETLFALPAASE 151 200 - VXXXX--KIMDLKEQPGNTISAGQEDFPSVLLETAASXPSLSPLSAASF 201 250 PVIPSSAEKIMDLMEQPGNTVSSGQEDFPSVLLETAASXPSLSPLSTVSF 201 250 KEHEYLGNLSTVLPTEGTLQE - - NVSEASKEVSEKAKTLLID - RDLTEFS 251 300 KEHGYLGNLSAVSSSEGTIEETLN - - EASKELPERA - TNPFVNRDLAEFS 251 300 ELEYSEMGSSFSVSPKAESAVI-VANPREEIIVKNKDEEEKLV-SNNILH 301 350 ÉLÉYSÉMGSSFKGSPKGESA-ILVENTKÉEVIVRSKOKÉD-LVCSAA-LH 301 350 XQQELPTALTKLV-KEDEVVSSEKAKDSFNEKR--VAVEAPMREEYADFK 351 400 1 111 111 11 1 111 ŚPQESP-----VGKEDRVVSPEKTMDIFNEMQMSV-V-APVREEYADFK 351 400 PFERVWEVKDSKEDS - DMLAAGGKIESNLESKVDKKCFADSLEQTNHEKD 401 450 PFEQAWEVKÖTYEGSRÖVLAARA - - - - NVESKVÖRKCLEDSLEQKSLGKÖ 401 450 SESSNDDTSFPSTPEGIKDRSGAYITCAPFNPAATESIAT-NIFPLLEDP 500 ŚĖGRNEDAŚĘPŚTPĖPVKOSŚRAYITCASĘTSA-TĖST-TANTĘPLLĖDH 451 500 TSENXTDEKKIEEKKAQIVTEKNTSTKTSNPFFVAAQDSETDYVTTDNLT 501 550 TSENXTDEKKIEERKAQIITEK-TSPKTSNPFLVAVQDSEADYVTTDTLS 501 550 - 551 -KVTEEVVANMPEGLTPDLVQEACESELNEVTGTKIAYETKMDLVQTSEVM - 600 -KVTEAAVSNMPEGLTPDLVQEACESELNEATGTKIAYETKVDLVQTSEAI

FIG. 13A

WO 00/	31235	PCT/US99/26160
601	QESLYPAAQLCPSFEESEATPSPVLPDIVMEAPLNSAVPSAGASVTO	PSS 650
601		PSV 650
651	SPLEASS-VNYESIKHEPENPPPYEEAMSVSLKVSGIKEEIKEPENI	NAA 700
651		 MAA 700
701	LQETEAPYISIACDLIKETKLSAEPAPDFSDYSEMAKVEQPVPDHSE	LVE 750
701		 LVE 750
751	DSSPDSEPVDLFSDDSIPDVPQKQDETVMLVKESLTETSFESMIEYE	NKE 800
751	DSSPESEPVDLFSDDSIPEVPQTQEEAVMLMKESLTEVS-ETVAQH-	-KE 800
801	K-LSALPPEGGKPYLESFKL-SLDNTKDTLLPDEVSTLSKKEKIP	_QM 850
801	ERLSASPQELGKPYLESFQPNLHSTKDAASNDIP-TLTKKEKIS	 _QM 850
851	EELSTAVYSNDDLFISKEAQIRETETFSDSSPIEIIDEFPTLISSKT	OSF 900
851		
901	SKLAREYTDLEVSHKSEIANAPDGAGSLPCTELPHDLSLKNIQPKVE	KI 950
901		/HV 950
951	SFSDDFSKNGSATSKVLLLPPDVSALGHTQAEIESIVKPKVLEKEAEK	KL 1000
951	SDEFSENRSSVSKASISPSNVSALEP-QTEMGSIVKSKSLTKEAEK	 KKL 1000
1001	PSDTEKEDRSPSAIFSADLGKTSVVDLLYWRDIKKTGVVFGASLFLLL	.SL 1050
1001		
1051	TVFSIVSVTAYIALALLSVTISFRIYKGVIQAIQKSDEGHPFRAYLES	EV 1100
1051		EV 1100
1101	AISEELVOKYSNSALGHVNCTIKELRRLFLVDDLVDSLKFAVLMWVFT	YV 1150
1101		YV 1150
1151	GALFNGLTLLILALISLFSVPVIYERHQAQIDHYLGLANKNVKDAMAK	IQ 1200
1151		IQ 1200
1201	AKIPGLKRKAE	1250
1201	AKIPGLKRKAD	1250

FIG.13B

1	CA(G GC	T TA(A -	G TC1 - S	GGG G	GAA E	GCG	GGT (GTT G V	TCA / S	TGT	CTO	C AGO	G GA(
43	AA N	T TT	T GCA	A GTT	TAC Y	AGC S	GTT V	TCT	GTI S V	GGT GGT	ATC	A F	1 1	TTC V L
85	TAA	A TT(- L	CTC	CTG L	GAG E	GGC G	AGA R	TCC	TGG W	CAA	GAA	STAR ATC	GAC	GGA
127	CAG	AAC	G AAA	CAT	TGG W	AAG K	GAC D	AAG K	GTT V	GTT V	GAC	CTC	CTC	TAC Y
169	TGG	AGA I F	A GAC	TTA:	AAG K	AAG K	ACT T	GGA G	GTG V	GTG V	TTT F	GGT G	GCC	AGC
211	TTA L	TTC F	CTG	CTG L	CTG L	TCT S	CTG L	ACA T	GTG V	TTC F	AGC S	TTA I	GTC V	AGT S
253	GTA V	ACG	GCC	TAC	TTA	GCC A	TTG .L	GCC A	CTG L	CTC L	TCG S	GTG V	ACT T	ATC I
295		TTT F	AGG R	ATA I	TAT Y	AAG K	GGC G	GTG V	ATC I	CAG Q	GCT A	ATC 1	CAG Q	AAA K
337	TCA S	GAT D	GAA E	GGC G	CAC H	CCA P	TTC F	AGG R	GCA A	TAT Y	TTA L	GAA E	TCT S	GAA E
379	•	GCT A	ATA I	TCA S	GAG E	GAA E	TTG L	GTT V	CAG Q	AAA K	TAC Y	AGT S	AAT N	TCT S
421	GCT A	CTT L	GGT G	CAT H	GTG V	AAC N	AGC S	ACA T	ATA I	AAA K	GAA E	CTG L	AGG R	CGG R
463	CII	TTC F	TTA L	GTT V	GAT (GAT D	TTA L	GTT V	GAT D	TCC S	CTG L	AAG K	TTT F	GCA A
505	GTG V	TTG L	ATG M	TGG W	GTG V	TTT F	ACT T	TAT Y	GTT V	GGT G	GCC A	TTG L	TTC F	AAT N
547	GGT G	CTG	ACA T	CTA L	CTG /	TTA I	TTA L	GCT A	CTG L	ATC I	TCA S	CTC	TTC F	AGT S

FIG. 14A

T)

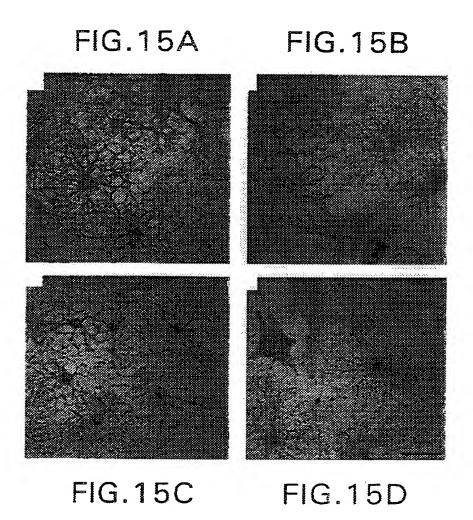
31/41

589 ATT CCT GTT ATT TAT GAA CGG CAT CAG GTG CAG ATA GAT CAT IPVIYERHQVQIDH 631 TAT CTA GGA CTT GCA AAC AAG AGT GTT AAG GAT GCC ATG GCC YLGLANKSVKDAMA 673 AAA ATC CAA GCA AAA ATC CCT GGA TTG AAG CGC AAA GCA GAT KIQAKIPGLKRKAD 715 TGA AAA AGC CCC AAA CAG AAG TTC ATC TTT AAA GGG GAC ACT I-KSPKQKFIFKGDI 757 CAC TTG ATT ACG GGG GTG GGA GGT CAG GGG TGA GCC CTT GGT H L I T G V G G Q G - A L G 799 GGC CGT GCG GTT TCA GCT CTT TAT TTT TAG CAG TGC ACT GTT GRAVS ALYF-QCTV 841 IGA GGA AAA ATT ACC TGT CTT GAC TTC CTG TGT TTA TCA TCT - G K I T C L DFLC 883 TAA GTA TTG TAA GCT GCT GTG TAT GGA TCT CAT TGT AGT CAC - V L - A A V Y G S H C 925 ACT TGT CTT CCC CAA TGA GGC GCC TGG TGA ATA AAG GAC TCG LPQ-GAW-I 967 GGG AAA GCT GTG CAT TGT ATC TGC TGC AGG GTA GTC TAG CTG GKAVHC I C C R V V - L 1009 TAT GCA GAG AGT TGT AAA GAA GGC AAA TCT GGG GGC AGG GAA YAESC KEGKSGGRE 1051 AAC CCT TTT CAC AGT GTA CTG TGT TTG GTC AGT GTA AAA CTG NPFHSVLCLVSVKL 1093 ATG CAG ATT TIT CTG AAA TGA AAT GTT TAG ATG AGA GCA TAC MQIFLK-NV-1135 TAC TAA AGC AGA GTG GAA AAC TCT GTC TTT ATG GTG TGT TCT Y - S R V E N S V F M V C S

FIG. 14B

1177 AGG TGT ATT GTG AAT TTA CTG TTA TAT TGC CAA TAT AAG TAA RCIVNLLLYCQYK-1219 ATA TAG ACC TAA TCT ATA TAT AGT GTT TCA CAA AGC TTA GAT I - T - S I Y S V S Q S L D 1261 CTT TAA CCT TGC AGC TGC CCC ACA GTG CTT GAC CTC TGA GTC L - P C S C P T V L D L - V 1303 ATT GGT TAT GCA GTG TAG TCC CAA GCA CAT AAA CTA GGA AGA I G Y A V - S Q A H K L G 1345 GAA ATG TAT TTG TAG GAG TGC TAC CTA CCA CCT GTT TTC AAG EMYL-ECYLPPV 1387 AAA ATA TAG AAC TCC AAC AAA AAT ATA GAA TGT CAT TTC AAA K 1 - N S N K N I E C H F K 1429 GAC TTA CTG TAT GTA TAG TTA ATT TTG TCA CAG ACT CTG AAA D L L Y V - L I L S Q T 1471 TTC TAT GGA CTG AAT TTC ATG CTT CCA AAT GTT TGC AGT TAT FYGLNFMLPNVC 1513 CAA ACA TTG TTA TGC AAG AAA TCA TAA AAT GAA GAC TTA TAC Q T L L C K K S - N E D L Y 1555 CAT TGT GGT TTA AG H C G L

FIG. 14C



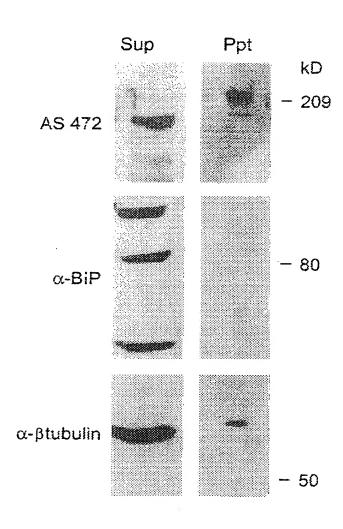
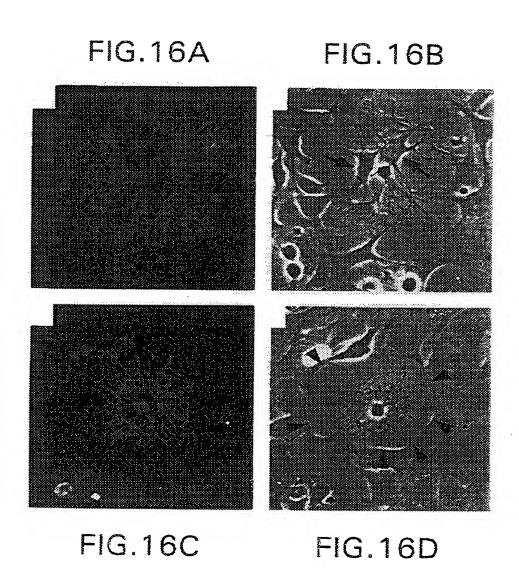
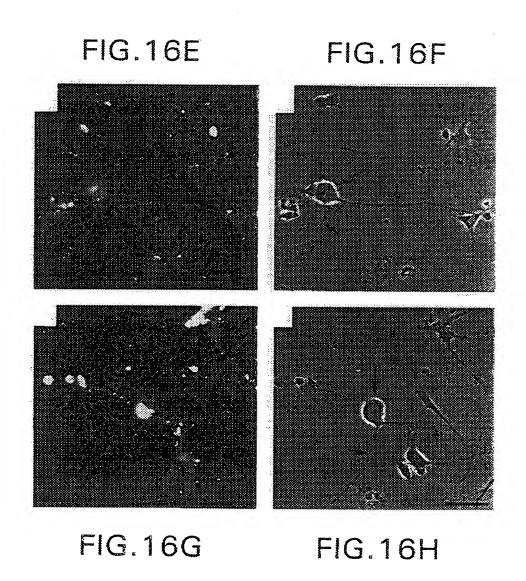
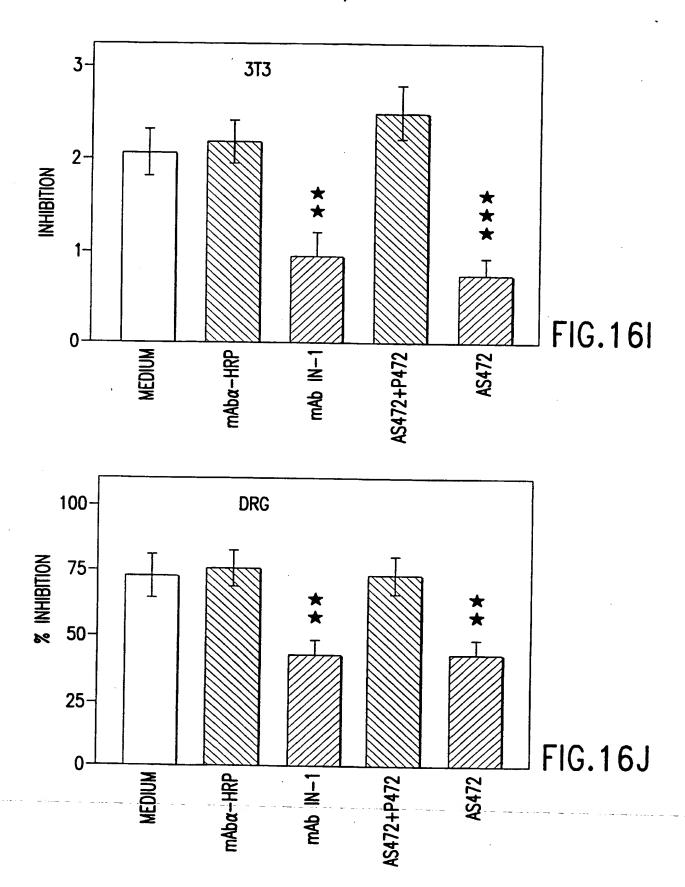


FIG.15E

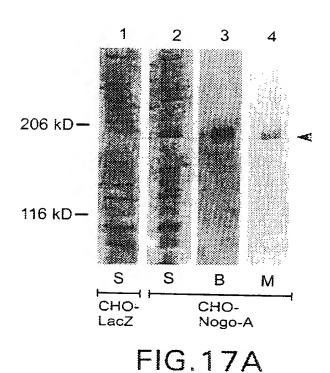












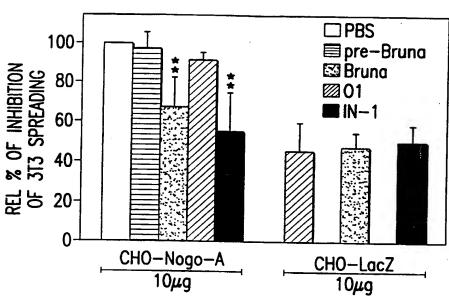


FIG. 17B

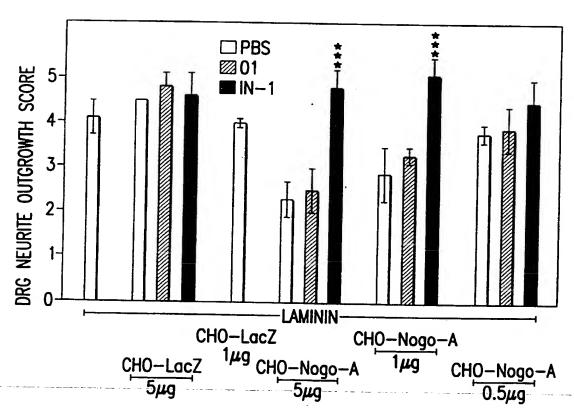
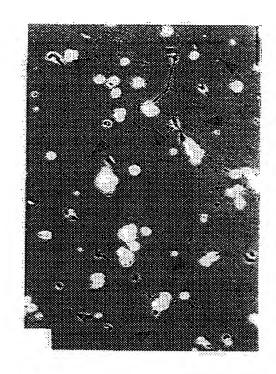
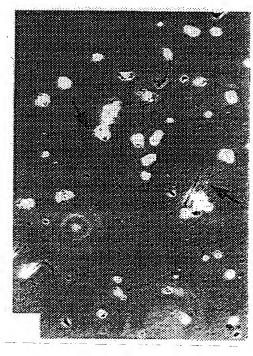


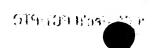
FIG.17C

CALLERY OF BURNEY OF STATE OF

PCT/US99/26160







WO 00/31235

PCT/US99/26160

